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Sir:

Transmitted herewith for filing is the Patent Application of:

ASSIGNEE NAME: International Business Machines Corporation
ASSIGNEE RESIDENCE: Armonk, New York

Inventor: B Carmeli, J J Duigenan, G Gershinsky, S J Todd, G D Wallis

For: **LIVENESS MONITORING IN A PUBLISH/SUBSCRIBE MESSAGING SYSTEM**

Enclosed are:

- ☒ Patent Specification and Declaration
- ☒ 5 sheets of drawing(s)
- ☒ An assignment of the invention to International Business Machines Corporation (includes Recordation Form Cover Sheet)
- ☒ A certified copy of a United Kingdom application filed on 8 April 2003, Serial Number 0308035.5
- ☐ Information Disclosure Statement, PTO 1449 and copies of references

The fee has been calculated as shown below:

	Number Filed	Number Extra		Rate	Fee \$
Basic Fee					\$770.00
Total Claims	52-20	32	x	18	\$576.00
Independent Claims	6-3	3	x	86	\$258.00
MULTIPLE DEPENDENT CLAIM PRESENTED				280	\$0.00
				TOTAL	\$1,604.00

- ☒ Please charge my Deposit Account No. 09-0447 in the amount of \$1604.00. A duplicate of this sheet is enclosed.
- ☒ The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account 09-0447. A duplicate copy of this sheet is enclosed.
- ☒ Any additional filing fees required under 37 CFR §1.16.
- ☒ Any patent application processing fees under 37 CFR §1.17.

Respectfully submitted

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